

METHOD FOR CONTROLLING WEARABLE DEVICE AND WEARABLE DEVICE

TECHNICAL FIELD

[0001] The present invention relates to a method of controlling a wearable device and a wearable device, and more particularly, to a method of controlling adherency between a sensor provided in the wearable device for detecting a biosignal and a body of user wearing the wearable device, and an apparatus for controlling the adherency.

BACKGROUND ART

[0002] Electronic devices have become smaller and lighter according to the development of technology and can have a variety of configurations. Accordingly, wearable devices that can be worn by a user have been developed. For example, smart watches or smart glasses have been developed. A smart watch refers to an embedded system wrist-watch that generally has more advanced features than a typical watch. A smart glass refers to a wearable computer that is generally equipped with a head mounted display (HMD). The wearable devices can be classified into a standalone device and an interlocking device. A standalone device is equipped with a self input/output device, an arithmetic unit, a storage device, and a communication device, and can be used alone. An interlocking device refers to a device that can be used after being connected with a separate device such as a smart phone.

[0003] Since the wearable device is worn on a user, it is advantageous for obtaining a biosignal from the user. Thus, a wearable device including various sensors has been developed. For example, a smart watch may be provided with a glucose sensor or a blood pressure sensor. The wearable device can be equipped with various sensors, such as a biosensor, a motion sensor, a chemical sensor, a temperature sensor, and a position sensor. A biosensor refers to a device for measuring a state or concentration of an organic compound by using a function of a living organism. A motion sensor refers to a device for detecting a movement of the device. For example, the motion sensor can include a gyroscope or an acceleration sensor. A chemical sensor refers to a sensor targeting a chemical material for measurement. A temperature sensor refers to a device for measure a temperature. A position sensor refers to a device for measuring a position such as a ground positioning system (GPS).

[0004] However, sensors may have different accuracy according to adherency information provided by the user. Thus, sensors need to be in close contact with the body of the user's body. On the other hand, if a sensor is positioned too close to the user, the user may suffer from pressure and feel uncomfortable.

DETAILED DESCRIPTION OF THE INVENTION

Technical Problem

[0005] According to an exemplary embodiment, there are provided a wearable device with a sensor configured to obtain more accurate measurement and a method of controlling the wearable device.

[0006] According to another exemplary embodiment, there are provided a wearable device that can be worn more comfortably by a user and a method of controlling the wearable device.

Technical Solution

[0007] As a technical means for achieving the above-described technical problems, a method of controlling a wearable device according to an exemplary embodiment includes steps of: determining whether a sensor provided in the wearable device is in an activated state; controlling an adherency controller for adjusting adherency between the sensor and a body of a user wearing the wearable device based on whether the sensor is in the activated state; and detecting a biosignal via the sensor.

Advantageous Effects of the Invention

[0008] According to an exemplary embodiment, when adjusting adherency as necessary between a sensor and a body of a user wearing a wearable device, a wearable device can be worn more comfortably by a user.

[0009] According to another exemplary embodiment, a sensor can obtain a more accurate measurement.

DESCRIPTION OF THE DRAWINGS

[0010] FIG. 1 is a flowchart illustrating a process of controlling a wearable device according to an exemplary embodiment.

[0011] FIG. 2 is a block diagram illustrating a structure of a wearable device according an exemplary embodiment.

[0012] FIG. 3 is a diagram conceptually illustrating an operation of a wearable device according to an exemplary embodiment.

[0013] FIG. 4 is a diagram conceptually illustrating an operation of a wearable device according to another exemplary embodiment.

[0014] FIG. 5 is a diagram conceptually illustrating a structure of an adherency controller according to an exemplary embodiment.

[0015] FIG. 6 is a diagram conceptually illustrating a structure of an adherency controller according to another exemplary embodiment.

[0016] FIG. 7 is a diagram conceptually illustrating a structure of a wearable structure according to an exemplary embodiment.

[0017] FIG. 8 is a diagram conceptually illustrating an operation of a multi-device.

BEST MODE

[0018] As a technical means for achieving the above-described technical problems, a method of controlling a wearable device according to an exemplary embodiment may include steps of: determining whether a sensor provided in the wearable device is in an activated state; controlling an adherency controller for adjusting adherency between the sensor and a body of a user wearing the wearable device based on whether the sensor is in the activated state; and detecting a biosignal via the sensor.

[0019] In addition, in an exemplary embodiment, the determination of whether the sensor is in the activated state may include a step of checking an operation schedule of the sensor.